



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0623/S-96, REVISION 2

East Building, PHH-23
1200 New Jersey Avenue SE
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.4 (Manufactured on or after July 17, 1980).
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 22.4 mm (0.88 in.) in diameter and 48.4 mm (1.91 in.) in length. Minimum wall thickness of the sheath body is 1.2 mm (0.005 in.) and of the cell body is 1.2 mm (0.005 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11014, Rev. A.
3. Radioactive Contents - No more than 740.0 GBq (20.0 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with beryllium and pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on December 31, 2012.

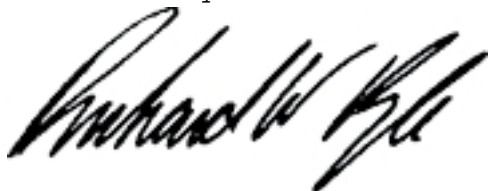
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the December 04, 2007 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Dec 20 2007

(DATE)

 Robert A. Richard

Deputy Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date and update corporate name.

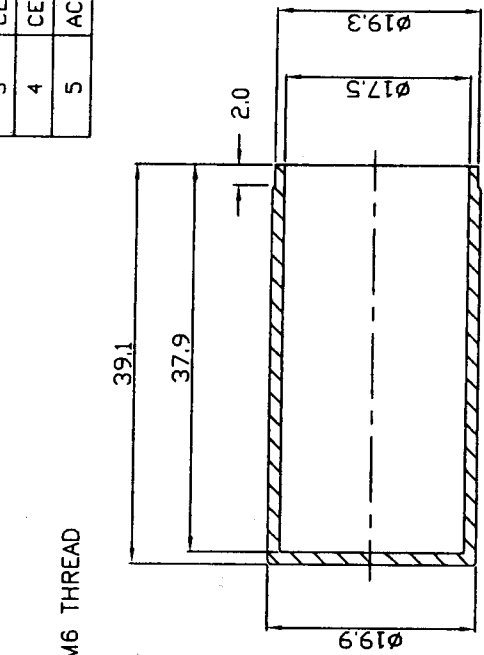
Item #	Description	Qty.
1	SHEATH BODY STAIN.STL.	1
2	SHEATH LID STAIN.STL.	1
3	CELL BODY STAIN.STL.	1
4	CELL LID STAIN.STL.	1
5	ACTIVE MATERIAL	AR

TIG OR LASER WELD TO SEAL

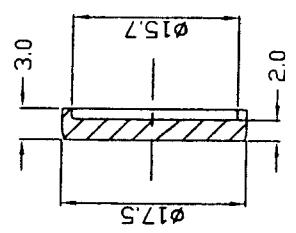
48.6 MAX. AFTER WELDING

Ø22.5 MAX.

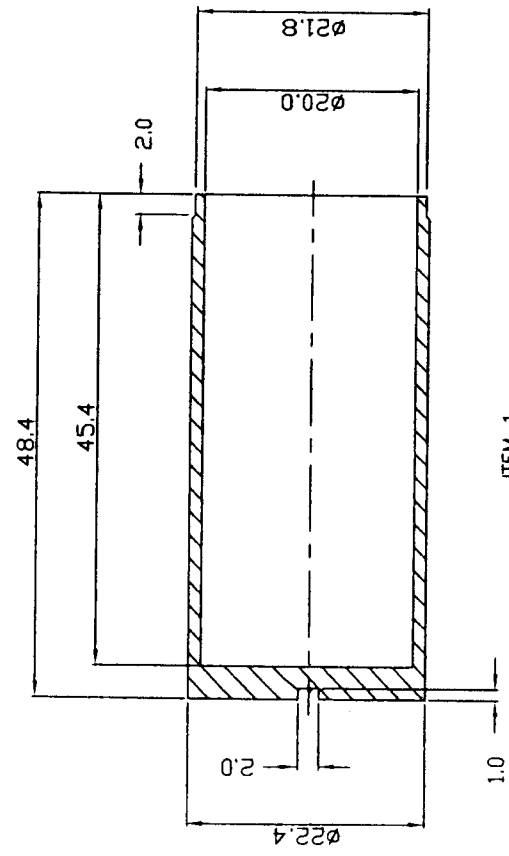
M6 THREAD



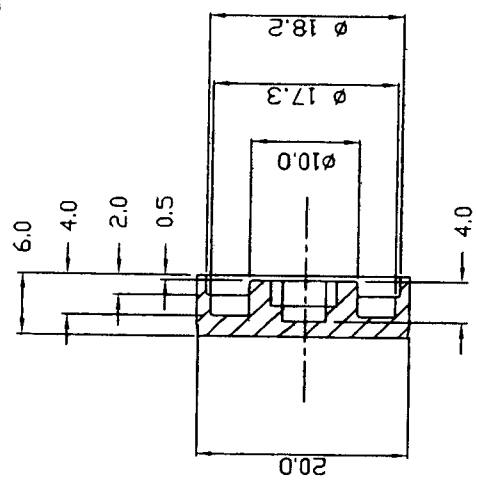
ITEM 3



ITEM 4



ITEM 1



ITEM 2

		DESCRIPTIVE DRAWING	
APPROVALS 		TITLE X4 CAPSULE ASSEMBLY	
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 X.X ±0.1 X.XX ±0.05 ANGULAR ±5°		SIZE A	
DWG. NO. RBA11014		REV A	
ERF # 430		SCALE: NONE SHEET 1 OF 1	

AEATECHNOLOGY
QSA
40 NORTH AVE, BURLINGTON, MA 01803



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Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0623/S-96, Revision 2

ORIGINAL REGISTRANT(S):

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